

US-PAT-NO: 5963334

DOCUMENT-IDENTIFIER: US 5963334 A

TITLE: Apparatus and method for
measuring color of a
measurement object

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

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APPL-NO: 09/ 034393

DATE FILED: March 4, 1998

COUNTRY	FOREIGN-APPL-PRIORITY-DATA:
APPL-DATE	APPL-NO
JP	9-053360
1997	March 7,

US-CL-CURRENT: 356/425, 250/306 , 356/402 ,
356/405 , 356/407

ABSTRACT:

A color measuring apparatus is provided with a radial illumination unit for projecting illumination light to a measurement object at a first illumination

angle in a plurality of directions, a unidirectional illumination unit for projecting illumination light to the measurement object at a second illumination angle in a single direction, a unidirectional light receiving unit for receiving a light ray reflected at a first angle θ_1 from the direction of regular reflection out of illumination light projected from the radial illumination unit and reflected by the measurement object, and a light ray reflected at a second angle θ_2 from the direction of regular reflection out of illumination light projected from the unidirectional illumination unit and reflected by the measurement object, the second angle θ_2 being larger than the first angle θ_1 , and a processing unit for calculating a color value at the first angle θ_1 and a color value at the second angle θ_2 based on an output of the unidirectional light receiving unit.

23 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 9

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Current US Cross Reference Classification - CCXR
(3):

356/405